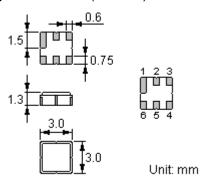


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Part Number: ACTF8062-868.30MHz-DCC6C-JF868 Frequency: 868.300MHz

The ACTF8062-868.30MHz-DCC6C-JF868 is a low-loss, compact, and economical surface-acoustic-wave (SAW) filter in a surface-mount ceramic DCC6C case with center frequency 868.300 MHz.

1. Package Dimension (DCC6C)



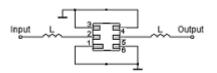
Pin	Configuration		
2	Input		
5	Output		
1, 3, 4, 6	Case Ground		

2. Marking

3. Test Circuit

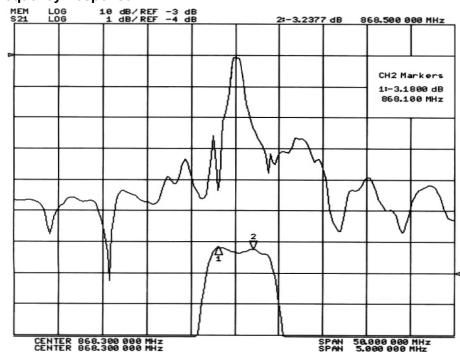


Laser Printing, Top View



L = 8.2 Nh

4. Typical Frequency Response



In line with our ongoing policy of product evolvement and improvement, the above specification may subject to change without notice

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5. Performance

5-1. Maximum Ratings

Rating	Value	Unit	
Input Power Level	P_{in}	+15	dBm
DC Voltage	$V_{ m DC}$	12	V
Storage Temperature Range	$T_{ m stg}$	-40 to +125	°C
Operable Temperature Range	T _A	-40 to +125	°C

5-2. Electronic Characteristics

Characteristic		Minimum	Typical	Maximum	Unit	
Center Frequency (center frequency between 3dB points)		f _C		868.300		MHz
Insertion Loss		IL		3.5	4.5	dB
3dB Pass band		BW ₃	800	950	1050	kHz
Rejection	at f _C -21.4 MHz (Image)		40	45		dB
	at f _C -10.7 MHz (LO)		30	40		
	Ultimate			50		
Temperature	Turnover Temperature	To	10		55	°C
	Turnover Frequency	f _O		f _C		MHz
	Frequency Temperature Coefficient	FTC		0.032		ppm/°C²
Frequency Aging Absolute Value during the First Year		fA		10		ppm/yr

(i) CAUTION: Electrostatic Sensitive Device. Observe precautions for handling!

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NOTE:

- 1. The frequency $f_{\mathbb{C}}$ is defined as the midpoint between the 3dB frequencies.
- Unless noted otherwise, all measurements are made with the filter installed in the specified test fixture that is connected to a 50Ω test system with VSWR≤1.2:1. The test fixture L is adjusted for minimum insertion loss at the filter center frequency, f_C. Note that insertion loss, bandwidth, and passband shape are dependent on the impedance matching component values and quality.
- 3. Unless noted otherwise, specifications apply over the entire specified operating temperature range.
- 4. Frequency aging is the change in f_C with time and is specified at +65°C or less. Aging may exceed the specification for prolonged temperatures above +65°C. Typically, aging is greatest the first year after manufacture, decreasing in subsequent years.
- 5. Turnover temperature, T_0 , is the temperature of maximum (or turnover) frequency, f_0 . The nominal frequency at any case temperature, T_0 , may be calculated from: $f = f_0 [1 FTC (T_0 T_0)^2]$.
- 6. The specifications of this device are based on the test circuit shown above and subject to change or obsolescence without notice.
- 7. All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.
- 8. Our liability is only assumed for the Surface Acoustic Wave (SAW) component(s) per se, not for applications, processes and circuits implemented within components or assemblies.

In line with our ongoing policy of product evolvement and improvement, the above specification may subject to change without notice

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